

## Vermont Mental Health Performance Indicator Project

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### MEMORANDUM

TO: Vermont Mental Health Performance Indicator Project  
Advisory Group and Interested Parties

FROM: John Pandiani and Christine Van Vleck

DATE: October 10, 2003

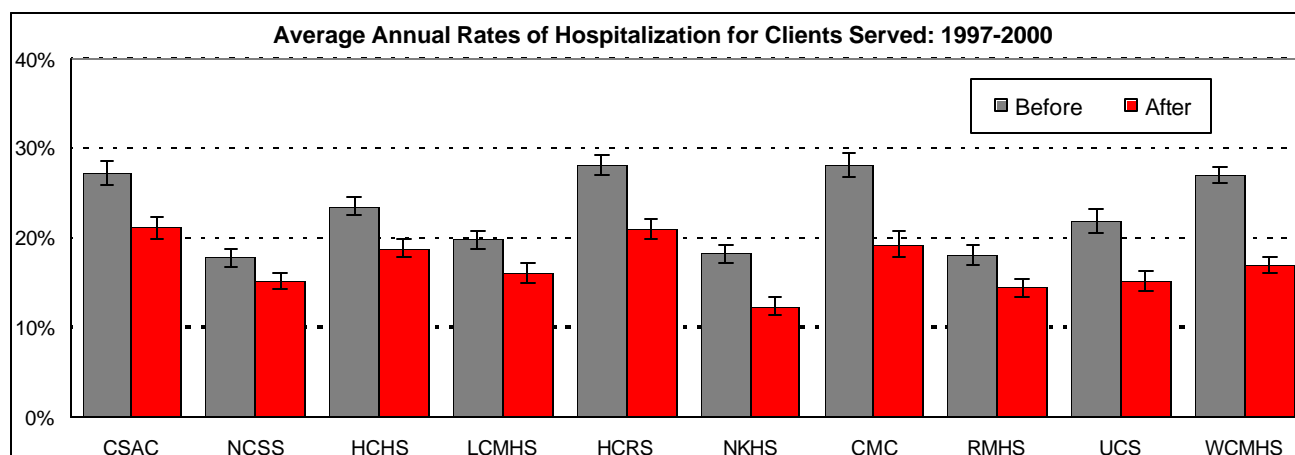
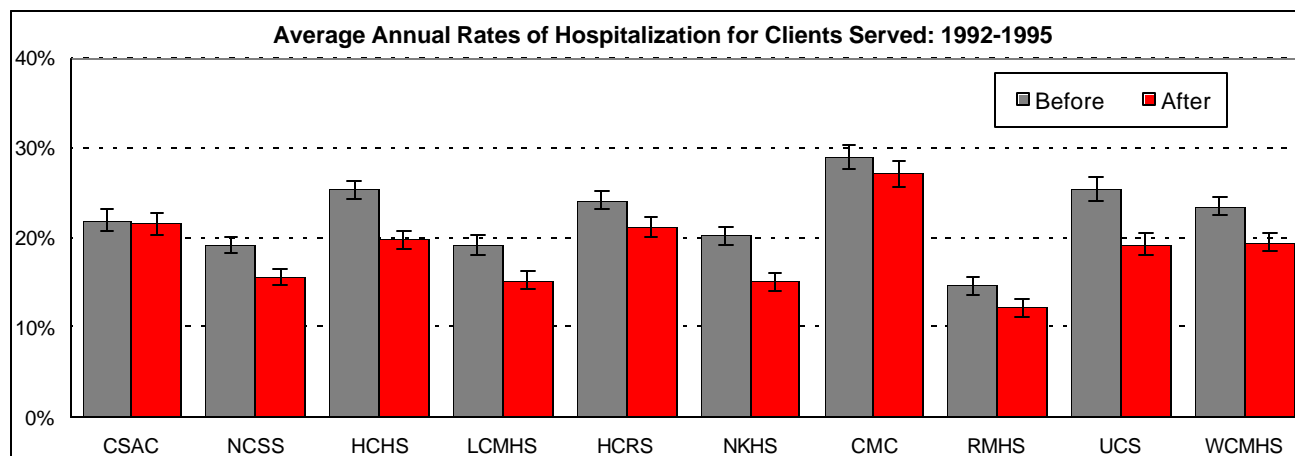
RE: Rates of Hospitalization

This week's PIP presents the results of an examination of rates of hospitalization for behavioral health care across service sectors (including state, general, veterans', and private hospitals) for adults receiving CRT community services for severe and persistent mental illness. The behavioral health hospitalization data set used in this analysis is described in more detail in our report on *Inpatient Behavioral Health Care Services Provided to Vermont Residents During 1990-2001* (<http://www.state.vt.us/dmh/Data/2001inpatientdatarevised0903.pdf>). Hospitalization rates for the year before each treatment year were compared to hospitalization rates for the year after each treatment year during two four year periods: 1992-1995 and 1997-2000. For each of these time periods, average annual hospitalization rates are presented for the year before each treatment year and for the year after each treatment year. Because the inpatient and community mental health databases do not share unique person identifiers, Probabilistic Population Estimation was used to determine the unduplicated number of individuals shared across data sets. Results are presented for the state as a whole and for each of Vermont's ten regional CRT programs. This analysis was conducted following the Recommendations of Vermont's Mental Health Performance Indicator Project Multi-Stakeholder Advisory Group regarding indicators of mental health program performance, treatment outcomes, access to care, and services provided and received (<http://www.state.vt.us/dmh/Data/PIPs/pipPerfIndRecs.pdf>).

As you will see, there was a significant decrease in hospitalization rates during both time periods and the decrease during the 1997-2000 was substantially greater than during 1992-1995 (27% decrease vs. 18% decrease). During the earlier period, one provider had an average decrease in hospitalization that was greater than 25% (Northeastern Vermont). During the later period, four providers had an average decrease in hospitalization that was greater than 25% (Northeastern Vermont, United Counseling in Bennington, Clara Martin Center in Orange County, and Washington County Mental Health).

We look forward to your interpretation of these findings and your suggestions for future analysis regarding hospitalization outcomes for mental health service recipients. As always, you can reach us at [pip@ddmhs.state.vt.us](mailto:pip@ddmhs.state.vt.us) or 802-241-2638.

# Inpatient Behavioral Health Care in State, General, Veteran's, & Private Hospitals During the Year Before and After Community Treatment Services for CRT Clients Served in Vermont: 1992-1995 and 1997-2000



	Statewide	Clinic									
		CSAC	NCSS	HCHS	LCMHS	HCRS	NKHS	CMC	RMHS	UCS	WCMHS
Average Annual CRT Caseload											
1992-1995	3,306	141	217	614	155	400	489	111	299	236	645
1997-2000	3,373	175	256	680	149	424	433	136	342	202	578
1992-1995 Average Annual Rate											
Hospitalized Before Service +/-	22% (0.4%)	22% (1.2%)	19% (0.9%)	25% (1.0%)	19% (1.0%)	24% (1.1%)	20% (1.0%)	29% (1.4%)	15% (1.1%)	25% (1.3%)	23% (0.9%)
Hospitalized After Service +/-	18% (0.4%)	22% (1.3%)	16% (0.9%)	20% (1.0%)	15% (1.0%)	21% (1.1%)	15% (1.0%)	27% (1.4%)	12% (1.0%)	19% (1.3%)	19% (0.9%)
Rate of Change +/-	-18% (2.3%)	0% (8.0%)	-19% (6.8%)	-22% (5.7%)	-19% (7.7%)	-13% (6.5%)	-26% (6.9%)	-7% (6.9%)	-14% (10.3%)	-24% (7.1%)	-17% (5.6%)
1997-2000 Average Annual Rate											
Hospitalized Before Service +/-	23% (0.4%)	27% (1.3%)	18% (1.0%)	23% (1.0%)	20% (1.1%)	28% (1.2%)	18% (1.1%)	28% (1.3%)	18% (1.1%)	22% (1.3%)	27% (1.0%)
Hospitalized After Service +/-	17% (0.4%)	21% (1.3%)	15% (0.9%)	19% (1.0%)	16% (1.0%)	21% (1.2%)	12% (1.0%)	19% (1.4%)	14% (1.0%)	15% (1.2%)	17% (1.0%)
Rate of Change +/-	-27% (2.3%)	-22% (6.8%)	-13% (7.8%)	-20% (6.1%)	-17% (7.6%)	-25% (6.0%)	-32% (8.2%)	-27% (6.8%)	-19% (8.3%)	-26% (8.3%)	-37% (5.3%)

Inpatient behavioral health care includes both inpatient mental health and inpatient substance abuse services. Hospitalization information is derived from the Hospital Discharge Data Set maintained by the Vermont Health Department, and database extracts provided by the Brattleboro Retreat and Vermont State Hospital. CRT client data are obtained from monthly service reports provided to DDMHS by designated agencies for the calendar years 1992-1995 and 1997-2000. Because data sets used in this analysis do not share unique person identifiers, Probabilistic Population Estimation was used to determine caseload size and overlap (with 95% confidence intervals).